## Wednesday, March 8, 2006
## Applications and Capabilities

| Time | Track | Session |
|------|-------|---------|
| 08:00 - 08:30 | **Breakfast and Registration** | |
| 08:30 – 08:50 | APPLICATIONS | *Welcome – Opening Remarks*<br>Cita Furlani, Charles Wilson, Patrick Grother |
| 08:50 – 09:00 | | *Opening Remarks*<br>Brad Wing, Department of Homeland Security |
| 09:00 – 09:20 | | *Importance of Image Quality to US-VISIT and IDENT programs*<br>Neal Latta, Department of Homeland Security |
| 09:20 – 09:40 | | *Law Enforcement Applications and Needs for Biometric Quality Assessment*<br>Christopher Miles, National Institute of Justice |
| 09:40 – 10:00 | | *FBI Image Quality Specification Certification*<br>Tom Hopper, Federal Bureau of Investigation |
| 10:00 – 10:20 | | *Integrating Standard Image Quality Metrics within IAFIS*<br>B. Scott Swann, Federal Bureau of Investigation |
| 10:20 – 10:40 | | *Panel Question and Answer* |
| 10:40 –11:00 | **Break** | |
| 11:00 – 11:20 | CAPABILITIES | *Biometric Quality: Technologies, Benefits and Challenges*<br>Ming Hsieh, Cogent Systems |
| 11:20 – 11:40 | | *Components of Fingerprint Image Quality*<br>Dan Maase, Identix |
| 11:40 – 12:00 | | *Thoughts and Figures on Quality Measurements*<br>Jean-Christophe Fondeur, Sagem-Morpho |
| 12:00 - 12:20 | | *Fingerprint Image Quality Metrics which Guarantees Matching Accuracy*<br>Amane Yoshida & Masanori Hara, NEC |
| 12:20 - 12:40 | | *Operational Elements of Fingerprint Image Quality*<br>Behnam Bavarian, Motorola |
| 12:40 – 13:00 | | *Panel Question and Answer* |
| 13:00 –14:00 | **Lunch at NIST Cafeteria** | |
| 14:00 - 14:20 | QUALITY BY DESIGN | *Improving the Quality of Biometric Capture using Auto Capture for Fingerprints*<br>Greg Cannon, Cross Match Technologies |
| 14:20 – 14:40 | | *Fingerprint Capture Challenges & Opportunities*<br>Rama Krishnan, Raytheon Information Solutions |
| 14:40 - 15:00 | | *Best Practices for Taking Face Photographs and Face Image Quality Metrics*<br>Donald D'Amato, Mitretek Systems |
| 15:00 - 15:20 | | *Human Factors and Usability Interaction on Fingerprint Quality*<br>Mary Theofanos & Ross Micheals, National Institute of Standards & Technology |
| 15:20 - 15:40 | | *The Role of Data Quality in Biometric Systems*<br>Austin Hicklin, Mitretek Systems |
| 15:40 – 16:00 | | *Auto Capture Using Multi-Sampling Can Control Fingerprint Image Quality*<br>Jay Hajeer, I/O Software |
| 16:00 – 16:20 | | *Panel Question and Answer* |
| 16:20 –16:40 | **Break** | |
| 16:40 – 17:00 | EVALUATION | *Human Visual Perception Model for Measuring Fingerprint Image Quality*<br>Robert Yen, Department of Defense Biometric Management Office |
| 17:00 – 17:20 | | *DoD ABIS: Quality Evaluation of Operational Multi-Modal Biometric Data*<br>Robert Carter, Department of Defense Biometric Management Office |
| 17:20 – 17:40 | | *Measuring the Quality of Biometric Database*<br>Hakil Kim, Inha University and Biometrics Engineering Research Center, Korea |
| 17:40 – 18:00 | | *Comparative Image Quality Assessment of Multi-spectral Fingerprint Images*<br>Robert K. Rowe, Lumidigm |
| 18:00 – 18:20 | | *Performance of Biometric Quality Measures*<br>Patrick Grother & Elham Tabassi, National Institute of Standards & Technology |
| 18:20 – 18:40 | | *Panel Question and Answer* |
| 18:40 –21:30 | **Reception at Hilton Hotel, Gaithersburg MD** | |

**Thursday, March 9, 2006**
**Research and Development**

| Time | Track | Session |
|---|---|---|
| 08:00 – 08:30 | **Breakfast** | |
| 08:30 – 08:50 | MODALITY - Face | *Some Quality Measures for Face Images and Their Relationship to Recognition Performance*<br>Frank Weber, Cognitec |
| 08:50 – 09:10 | | *Quality of 3D Face Acquisition and Its Relation to the Performance*<br>Artiom Yukhin, A4Vision |
| 09:10 – 09:30 | | *Quality Values for Face Recognition*<br>Martin Werner, Viisage |
| 09:30 – 09:50 | | *Performance Modeling and Prediction of Face Recognition Systems*<br>Qiang Ji, Rensselaer Polytechnic Institute |
| 09:50 - 10:10 | | *Measuring the Quality of Passport Photos*<br>Oriana Yuridia Gonzalez Castillo, Fraunhofer-IGD and Technical University Darmstadt |
| 10:10 – 10:20 | | *Panel Question and Answer* |
| 10:20 – 10:40 | **Break** | |
| 10:40 – 11:00 | MODALITY - Face | *Statistical Models Estimating How Attributes of People Influence Face Recognition Performance*<br>Ross Beveridge, Colorado State University |
| 11:00 – 11:20 | | *Quality Experiments from FRGC and ICE*<br>Jonathon Philips, National Institute of Standards & Technology |
| 11:20 – 11:40 | | *Beyond Image Quality: Failure Analysis from Similarity Surface Techniques*<br>Terrance Boult, University of Colorado at Colorado Spring |
| 11:40 – 12:00 | | *Human vs. Automatic Measurement of Biometric Sample Quality*<br>Andy Adler, University of Ottawa |
| 12:00 - 12:20 | | *Kernel Correlation Feature Analysis: A New Advanced Correlation Filter Approach for Face Recognition*<br>Marios Savvides, Carnegie Mellon University |
| 12:20 – 12:40 | | *Panel Question and Answer* |
| 12:40 –13:40 | **Lunch at NIST Cafeteria** | |
| 13:40 – 14:00 | MODALITY - Iris | *Iris Image Quality Metrics and Prediction*<br>John Daugman, University of Cambridge |
| 14:00 – 14:20 | | *Cross-Camera Iris Quality Study*<br>James L. Cambier, Iridian Technologies |
| 14:20 – 14:40 | | *Image Quality for Iris Recognition*<br>Philip Wasserman, National Institute of Standards & Technology |
| 14:40 – 15:00 | | *Image Quality Assessment for Iris Biometric*<br>Natalia Schmid, West Virginia University |
| 15:00 – 15:20 | FUSION | *Quality-based Fusion in Multi-biometric System*<br>Anil Jain, Michigan State University |
| 15:20 – 15:40 | | *Incorporating Biometric Quality in Multi-Biometrics*<br>Julian Fierrez-Aguilar, Universidad Autonoma de Madrid |
| 15:40 – 16:00 | | *Panel Question and Answer* |
| 16:00 -16:20 | **Break** | |
| 16:20 – 16:40 | STANDARDS | *Minutia Exchange Interoperability Test*<br>Charles L. Wilson, National Institute of Standards & Technology |
| 16:40 – 17:00 | | *Fingerprint Image Quality Across Different Populations*<br>*Activities of the SC37/WG 5/Biometric Equipment Performance*<br>Steve Elliott, Purdue University |
| 17:00 – 17:20 | | *Biometric Quality Standards: Importance, Status, and Direction*<br>David Benini, Aware |
| 17:20 – 17:40 | | *Quality Aspects of ANSI/NIST Fingerprint Data Exchange Format*<br>R. Michael McCabe, National Institute of Standards & Technology |
| 17:40 – 18:00 | | *Panel Question and Answer* |
| 18:00 -18:20 | **Wrap up - Adjourn** | |